

7 a third passage formed in the valve housing to permit, at selected times, the
8 fluid in the first passage to exit the valve housing;

9 a first valve mechanism incorporated in the valve housing for selectively
10 connecting and disconnecting the first passage with the second passage in
11 accordance with an external instruction; and

12 a second valve mechanism incorporated in the valve housing, wherein the
13 second valve mechanism selectively connects and disconnects the first passage
14 with the third passage in accordance with the difference between the pressure in
15 the first passage and the pressure in the second passage when the first valve
16 mechanism is closed, and wherein the second valve mechanism is always closed
17 when the first valve mechanism is open.

1 17. (New) A switch valve comprising:

2 a single valve housing;

3 a first passage formed in the valve housing to permit a fluid to flow into the
4 valve housing;

5 a second passage formed in the valve housing to permit, at selected times,
6 the fluid in the first passage to exit the valve housing;

7 a third passage formed in the valve housing to permit, at selected times, the
8 fluid in the first passage to exit the valve housing;

9 a first valve mechanism incorporated in the valve housing for selectively
10 connecting and disconnecting the first passage with the second passage in
11 accordance with an external instruction; and

12 a second valve mechanism incorporated in the valve housing for selectively
13 connecting and disconnecting the first passage with the third passage in
14 accordance with the difference between a pressure in the first passage and a
15 pressure in the second passage, wherein, when the first valve mechanism is closed,
16 the second valve mechanism connects the first passage with the third passage if